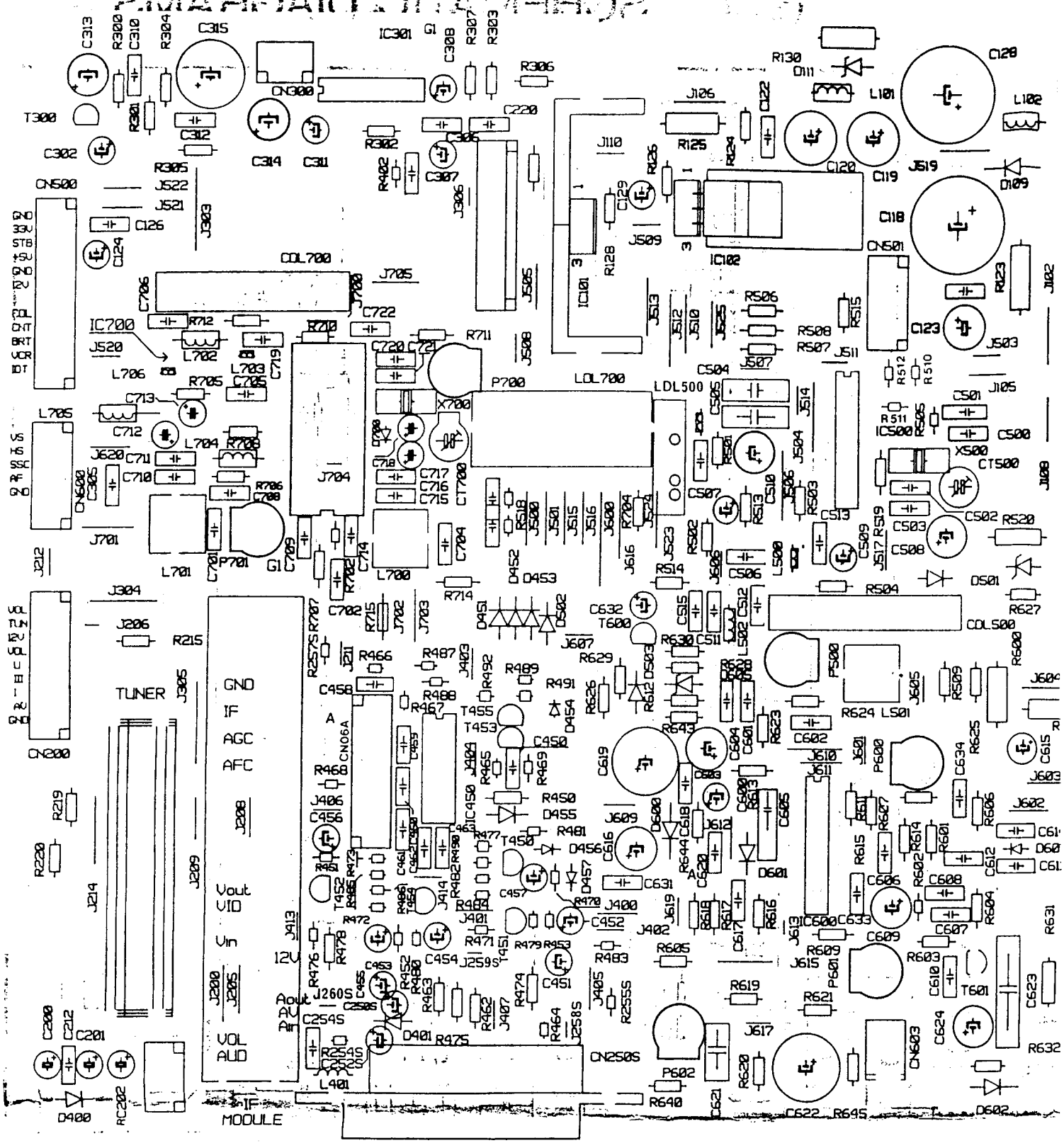
TUNER
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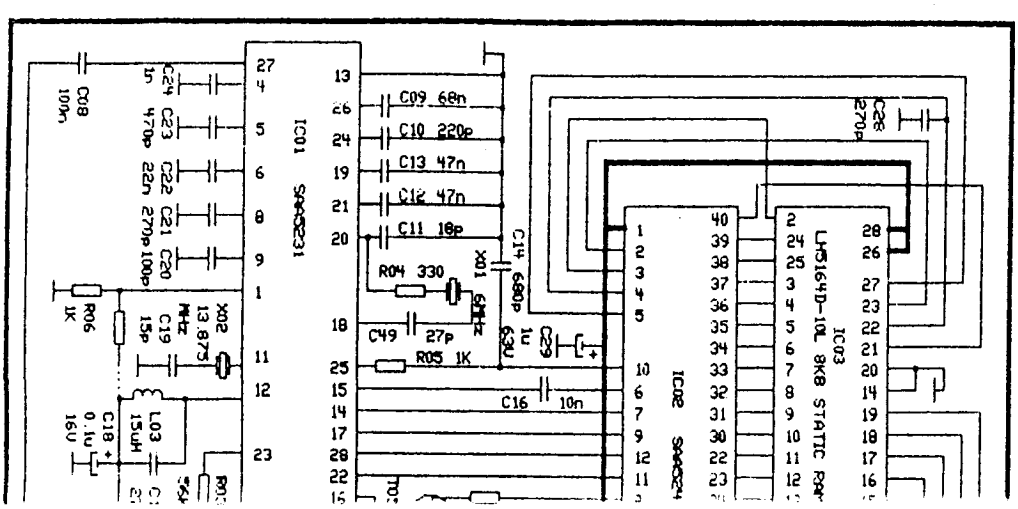
IF
AGC
AFC
Vout
VID
Vin
12V
Aout
Ain
VOL
AUD
IF MODULE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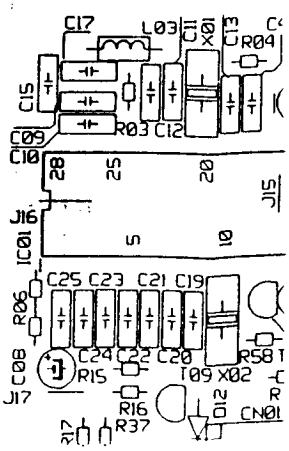
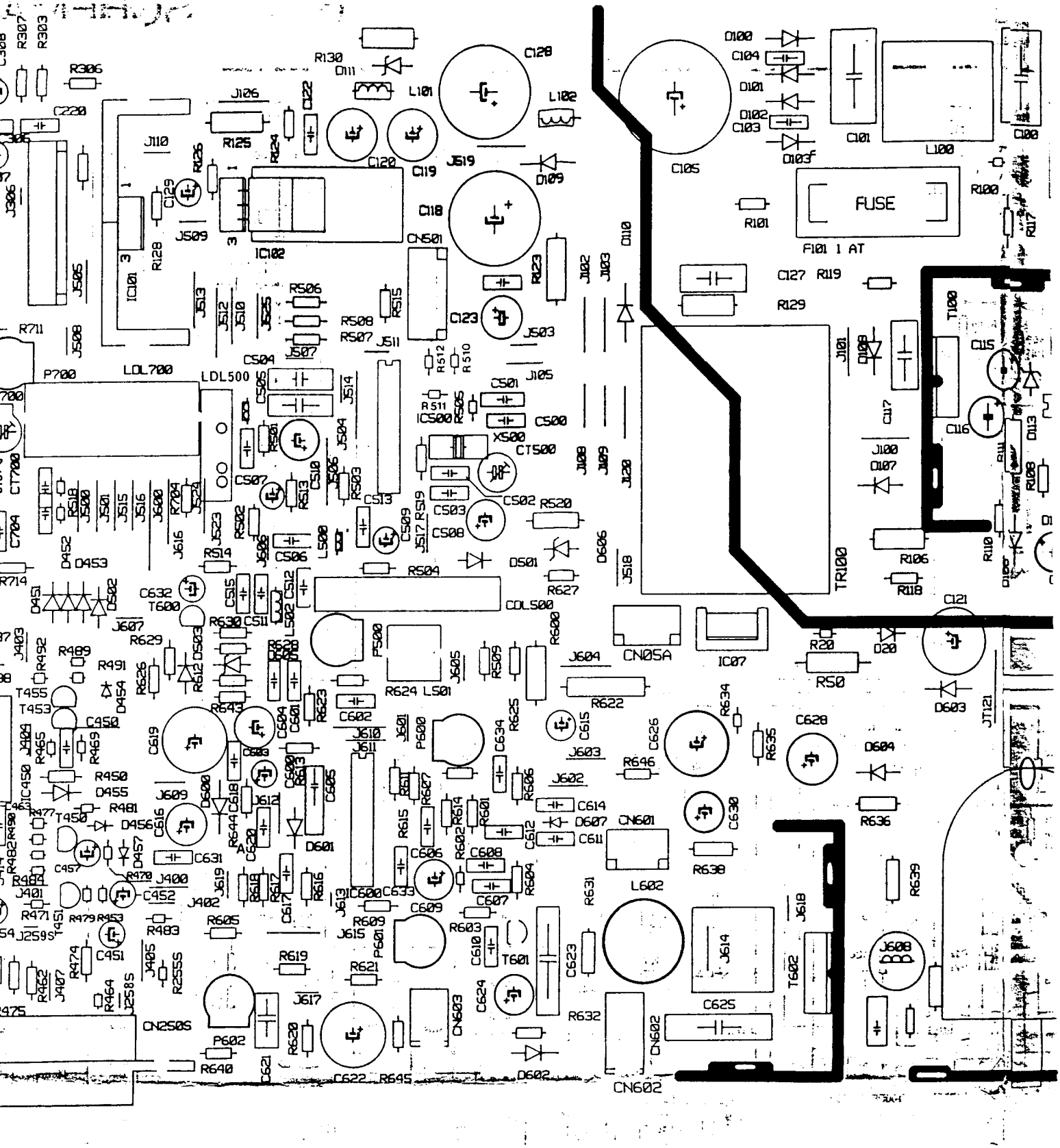
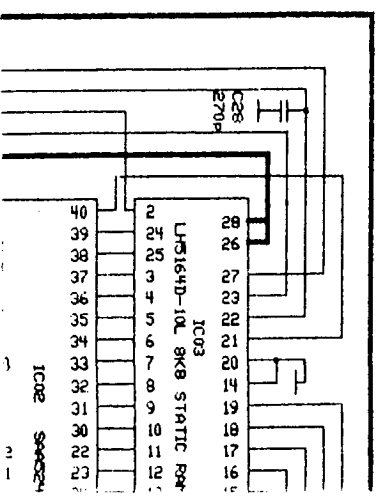
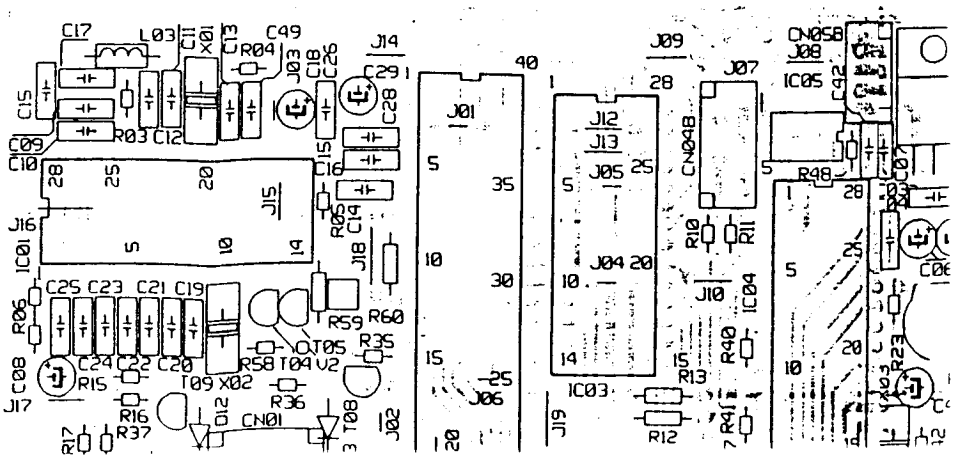
LH5164N-10L 8K×8 STATIC RAM

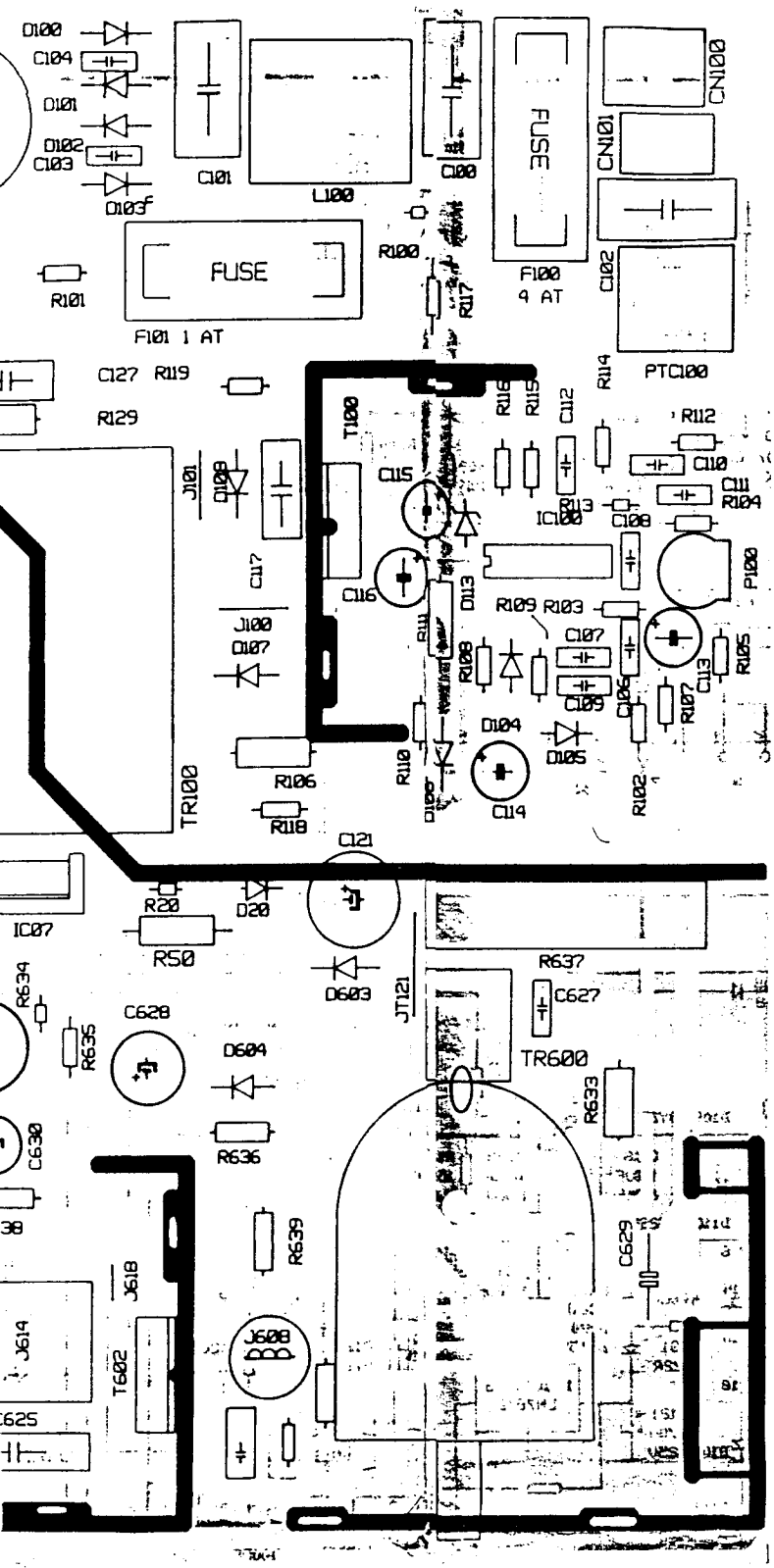




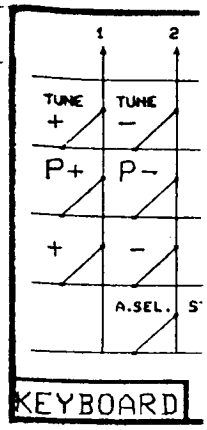
TELETEXT PCB



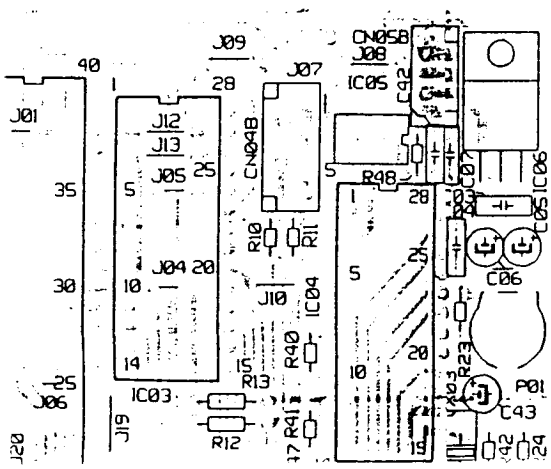




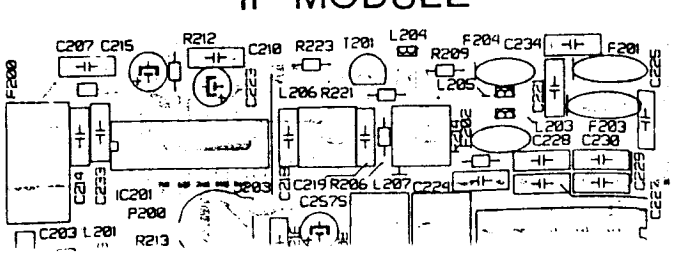
CODE	TV-MODE
00	PROGRAM DIGIT 0
01	PROGRAM DIGIT 1
02	PROGRAM DIGIT 2
03	PROGRAM DIGIT 3
04	PROGRAM DIGIT 4
05	PROGRAM DIGIT 5
06	PROGRAM DIGIT 6
07	PROGRAM DIGIT 7
08	PROGRAM DIGIT 8
09	PROGRAM DIGIT 9
10	ONE/TWO DIGIT ENTRY
12	STANDBY MODE
13	MUTE ON/OFF
14	PERSONAL PREFERENCE
15	TV STATUS
16	VOLUME UP
17	VOLUME DOWN
18	BRIGHTNESS UP
19	BRIGHTNESS DOWN
20	COLOUR UP
21	COLOUR DOWN
28	CONTRAST UP
29	CONTRAST DOWN
32	PROGRAM UP
33	PROGRAM DOWN
38	SLEEP TIMER
56	AV
63	TV



T PCB

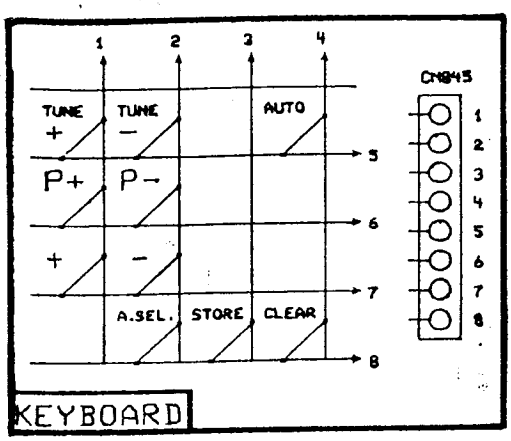


IF MODULE

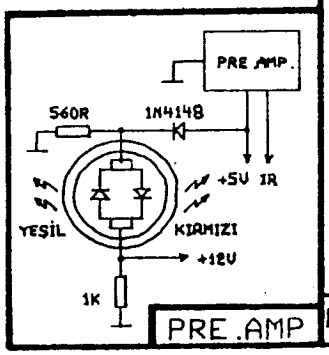


TV-MODE

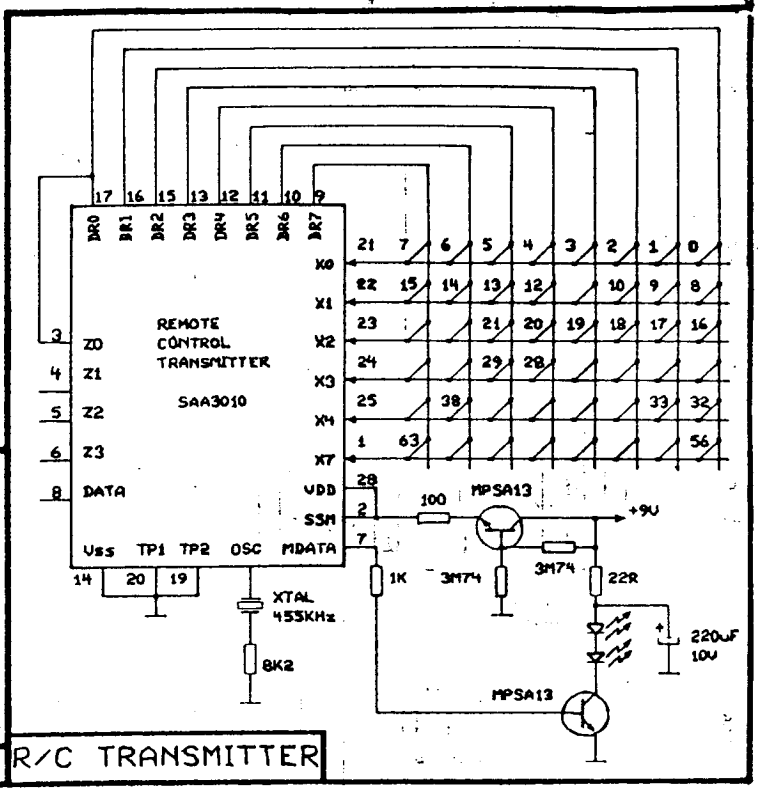
AM DIGIT 0
AM DIGIT 1
AM DIGIT 2
AM DIGIT 3
AM DIGIT 4
AM DIGIT 5
AM DIGIT 6
AM DIGIT 7
AM DIGIT 8
AM DIGIT 9
NO DIGIT ENTRY
AY MODE
ON/OFF
NAL PREFERENCE
ATUS
E UP
E DOWN
TNESS UP
TNESS DOWN
R UP
R DOWN
AST UP
AST DOWN
AM UP
AM DOWN
TIMER



KEYBOARD

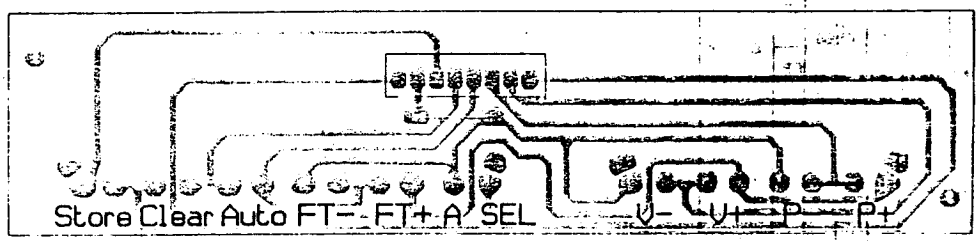


PRE.AMP

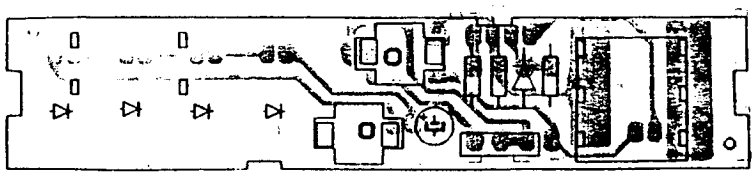


R/C TRANSMITTER

KEYBOARD PCB



PREAMPLIFIER PCB



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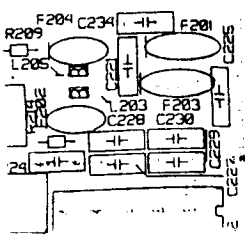
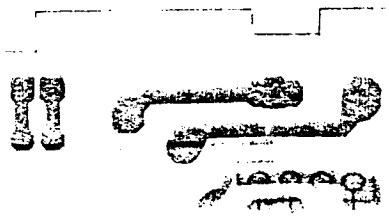
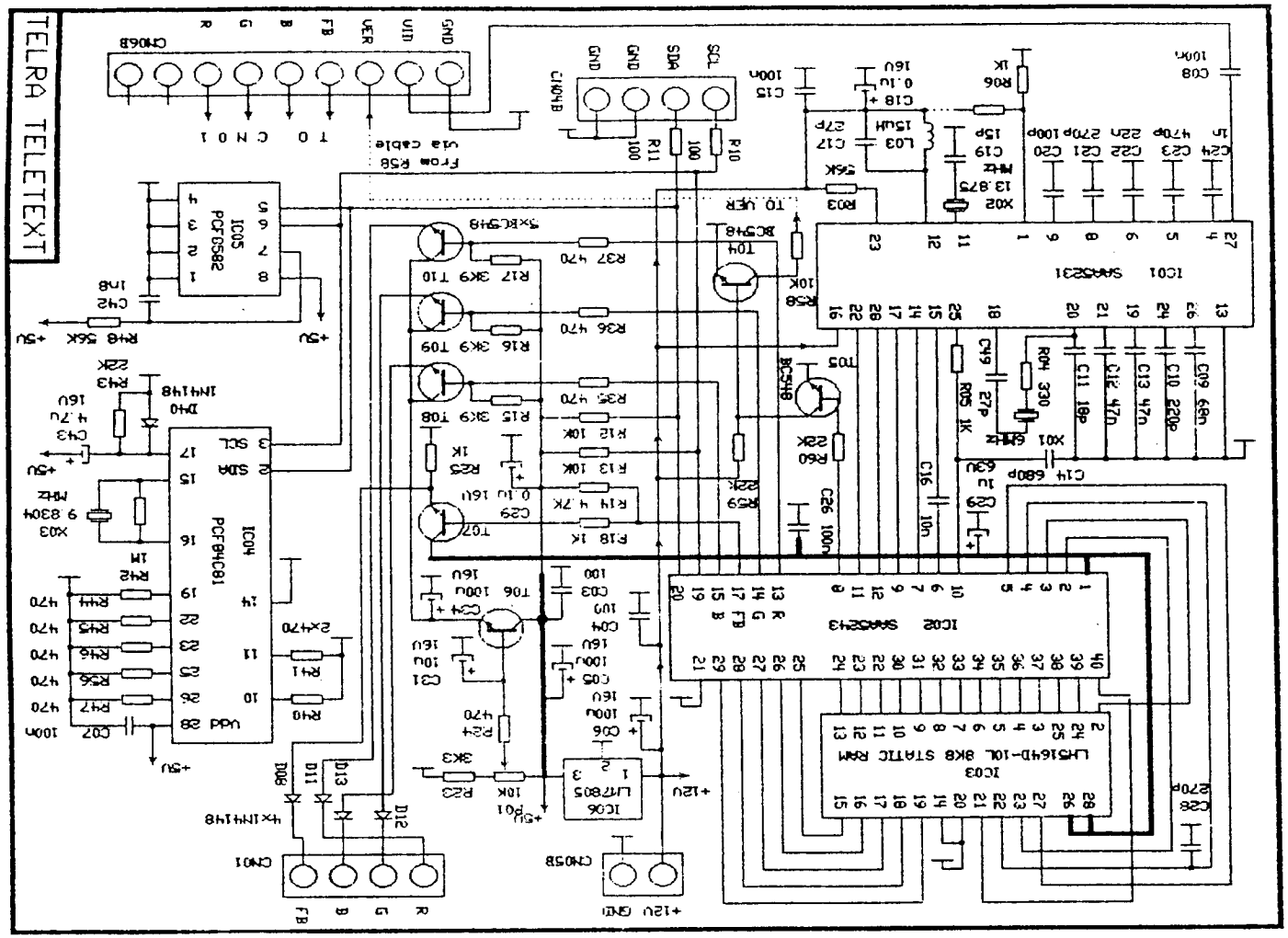
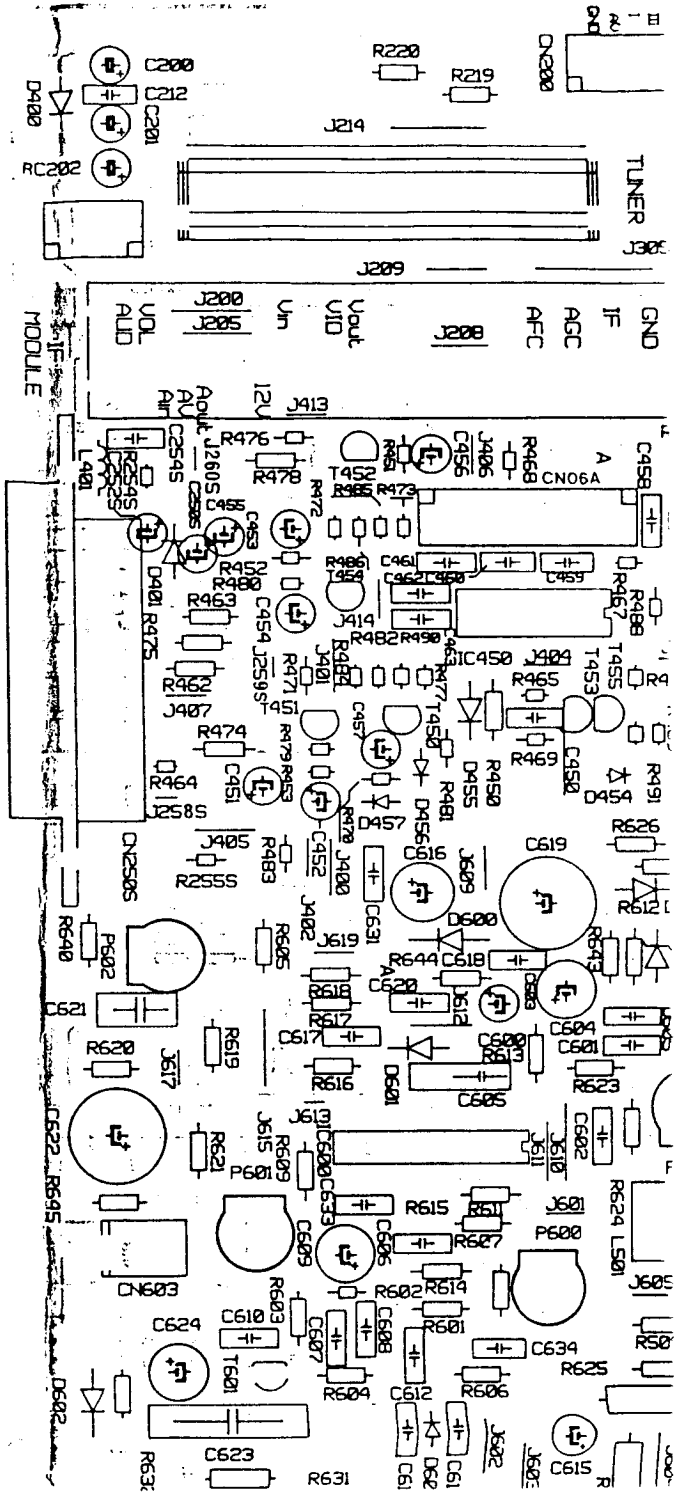


ON-OFF PCB







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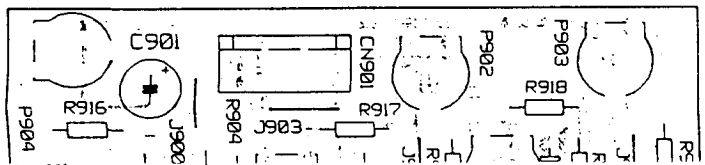
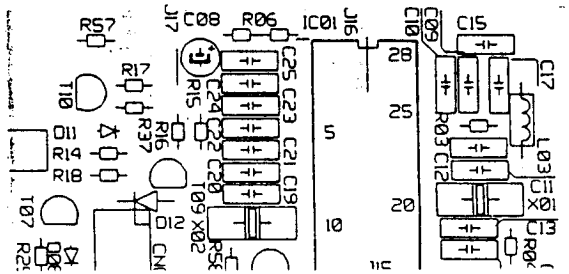
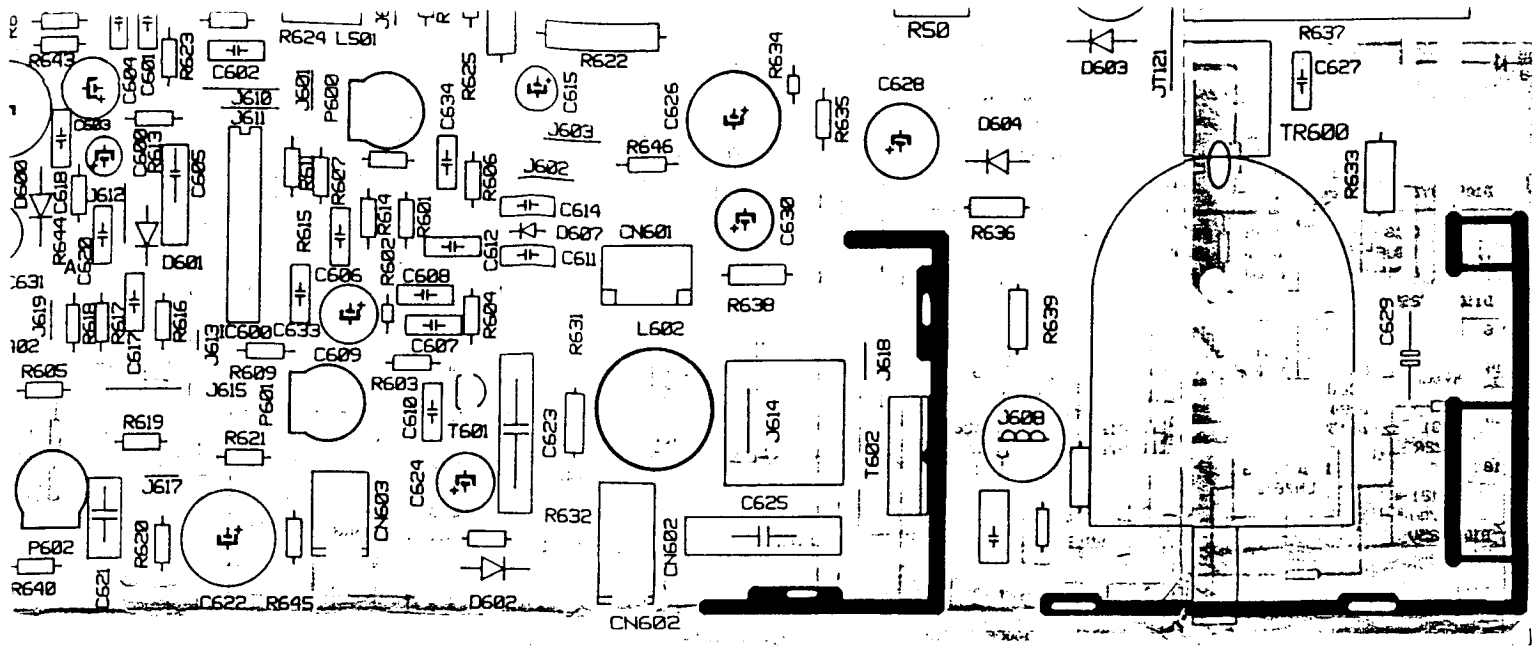
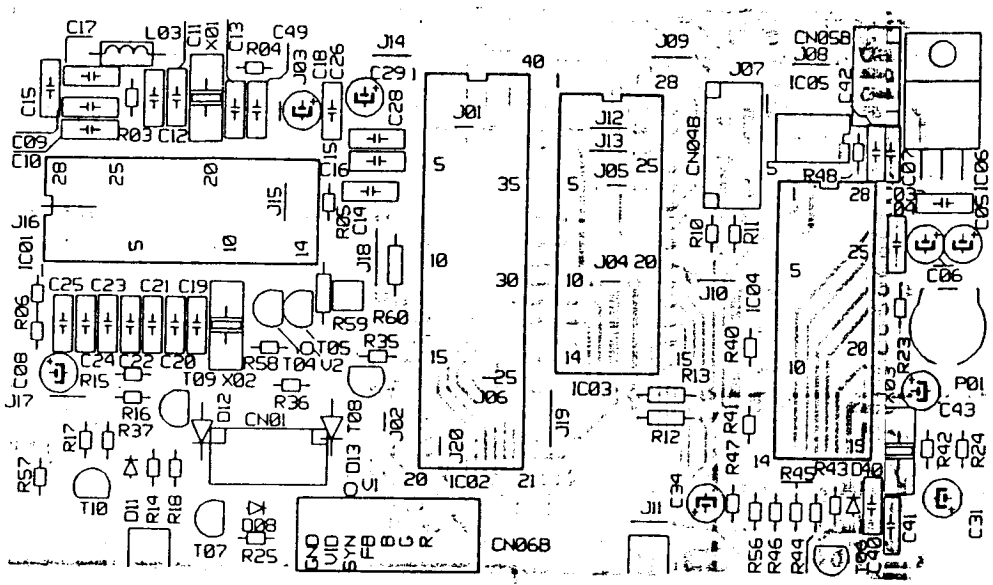
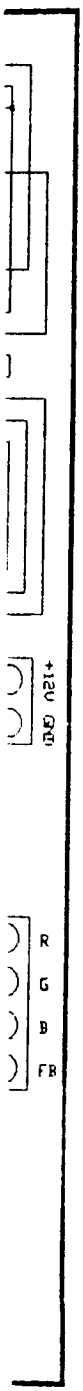




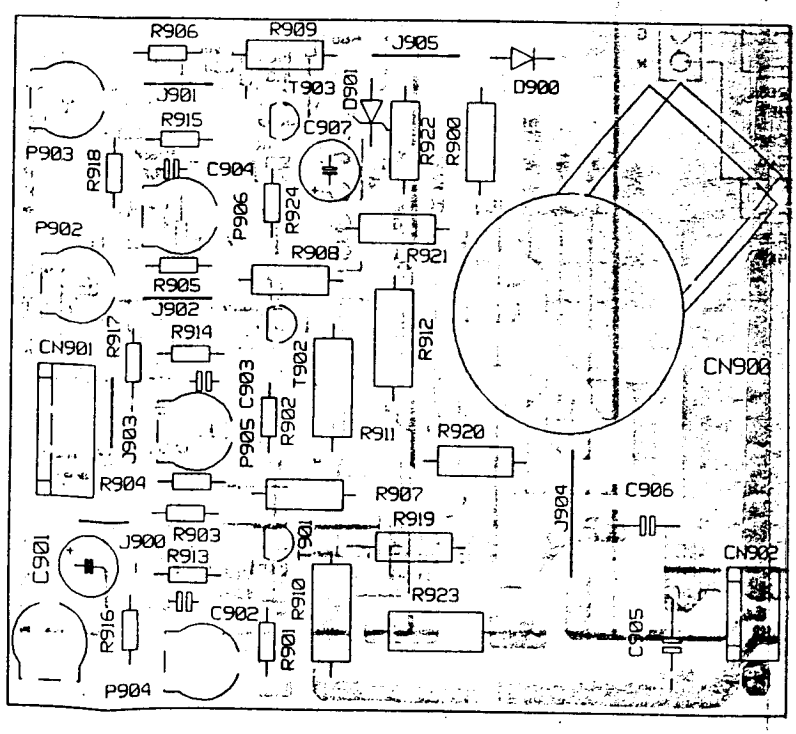


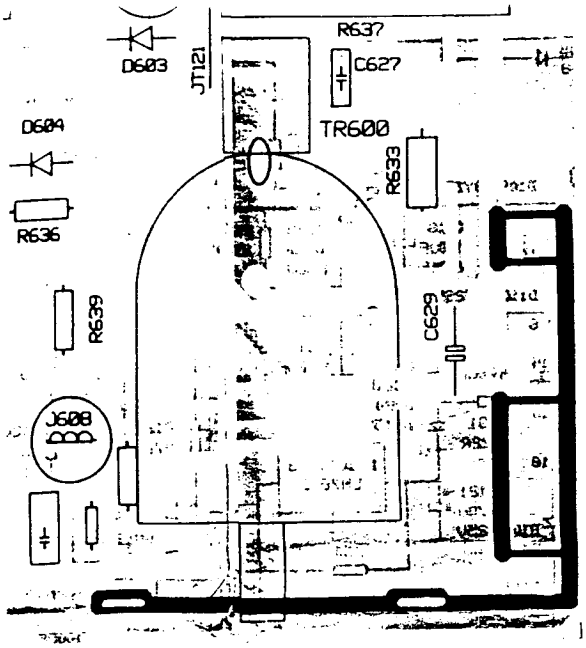
TELETEXT PCB

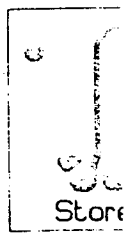


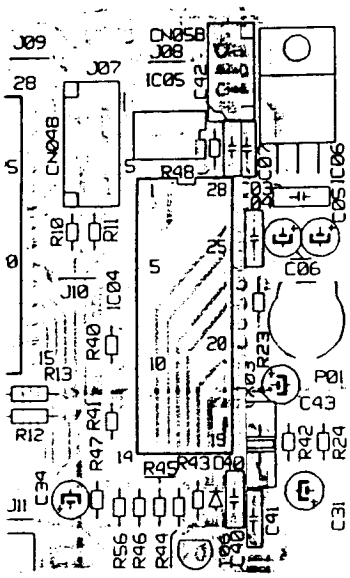


CRT

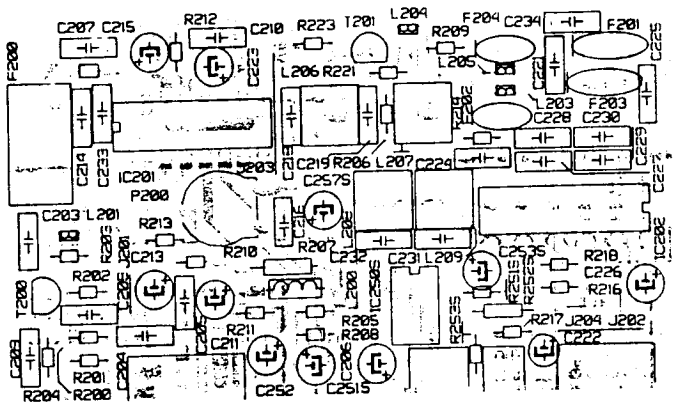


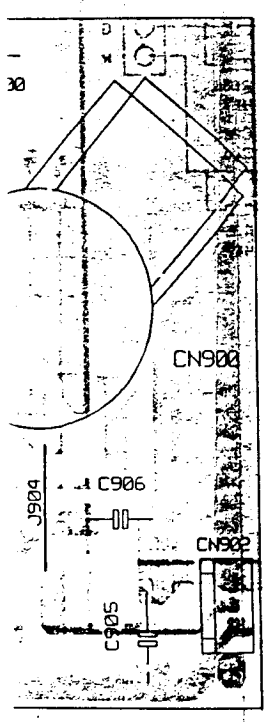




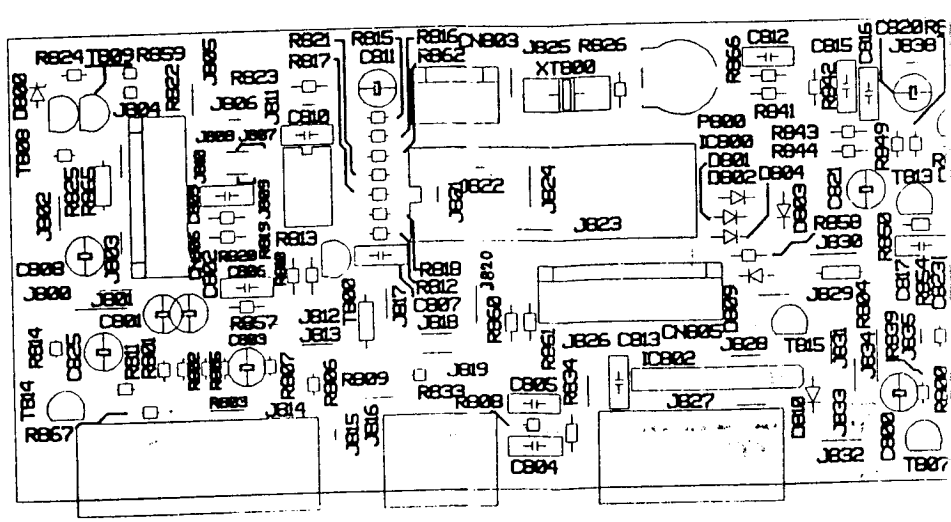


IF MODULE

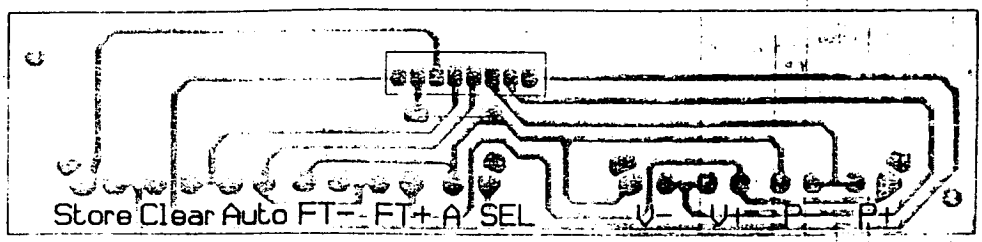




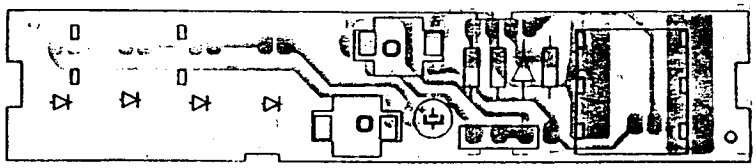
CONTROLLER



KEYBOARD PCB



PREAMPLIFIER PCB



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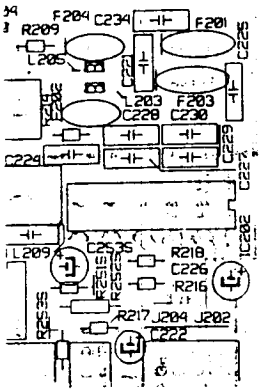
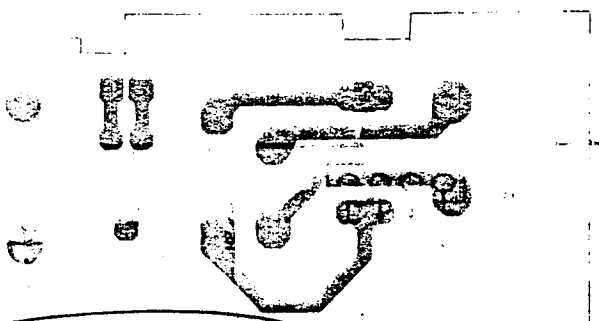
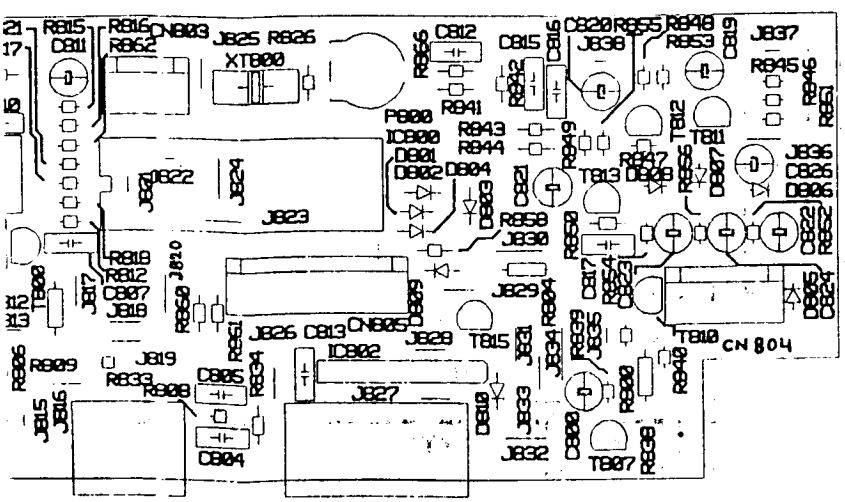


ON-OFF PCB

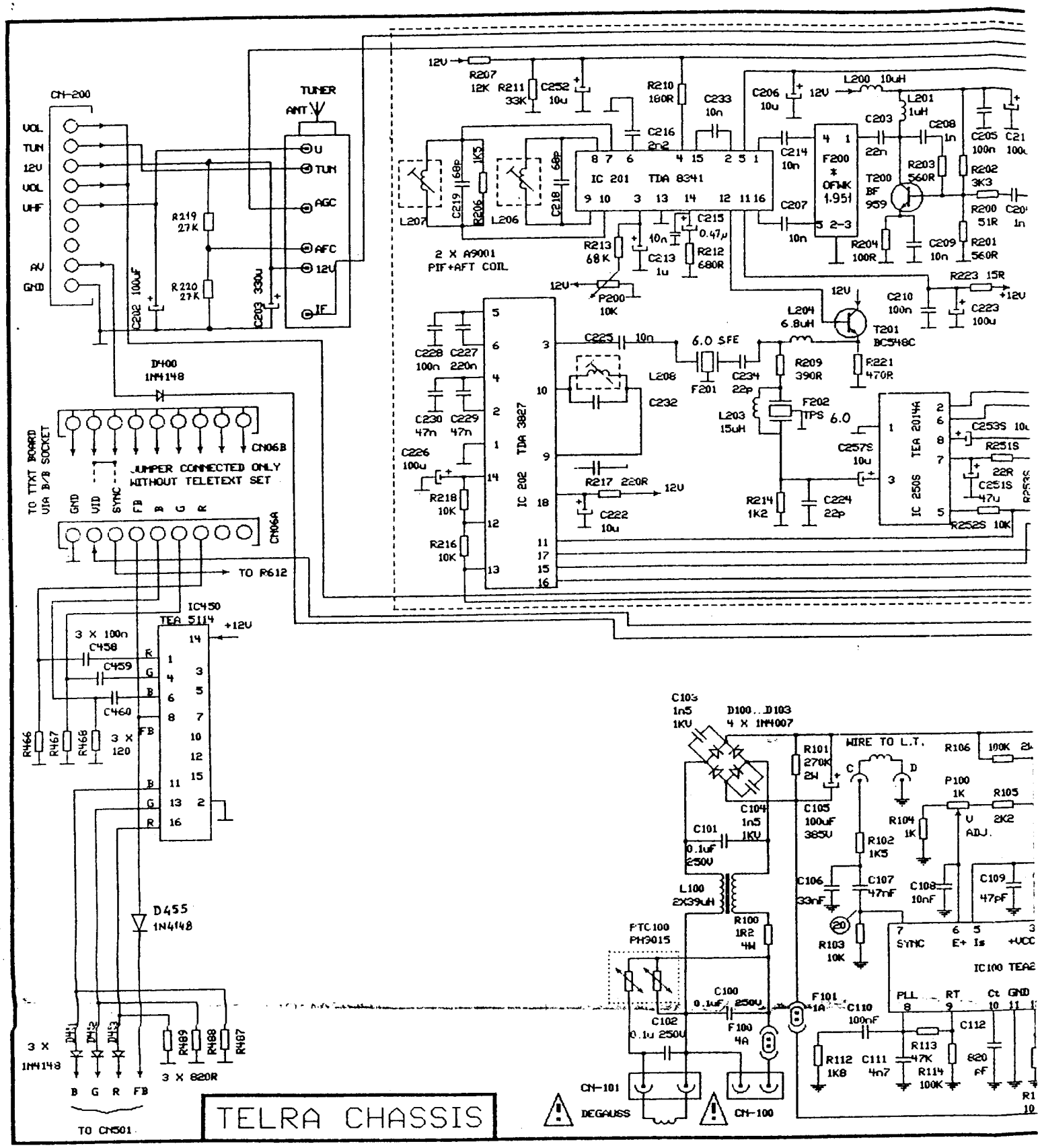


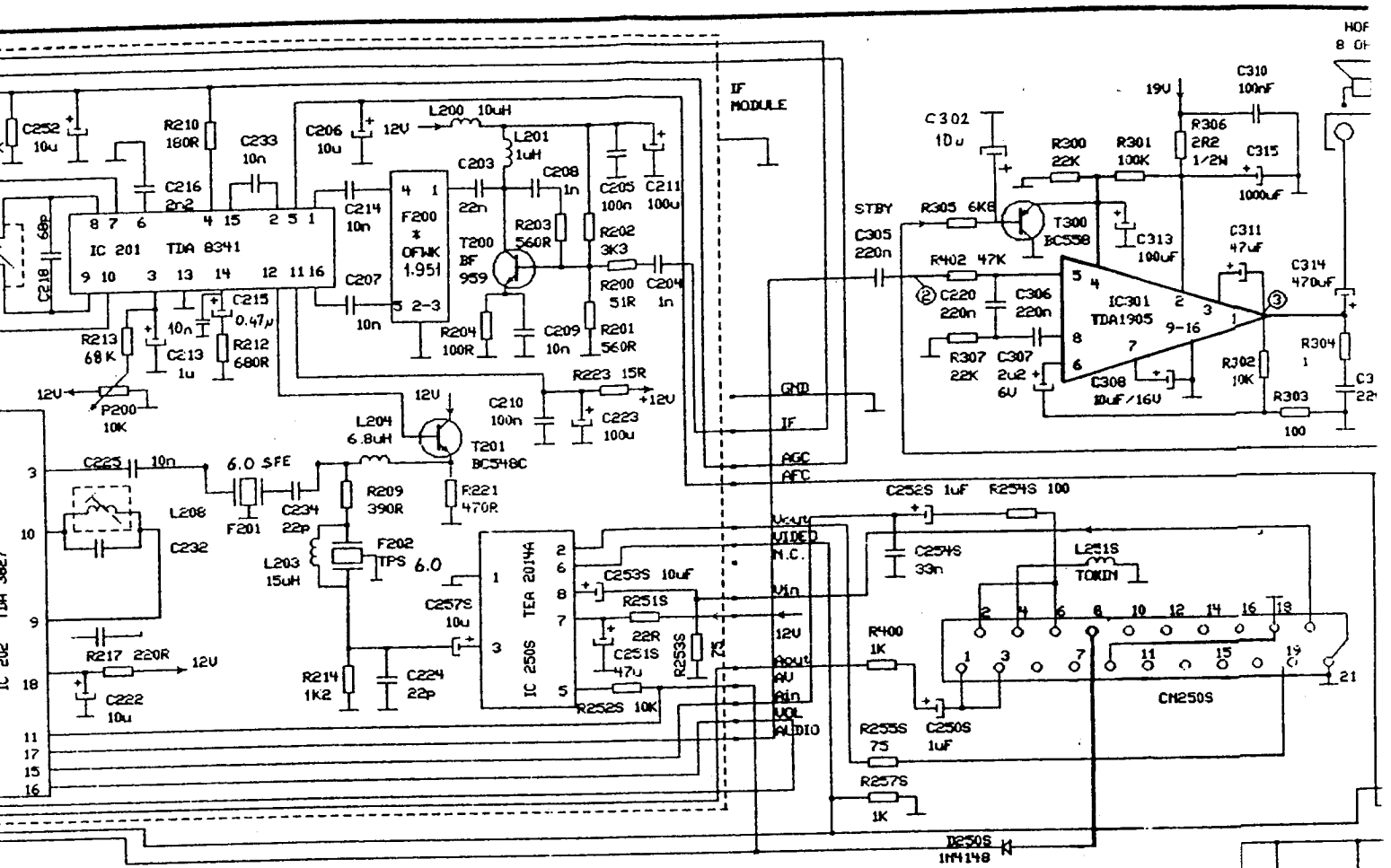
3 PAGES!

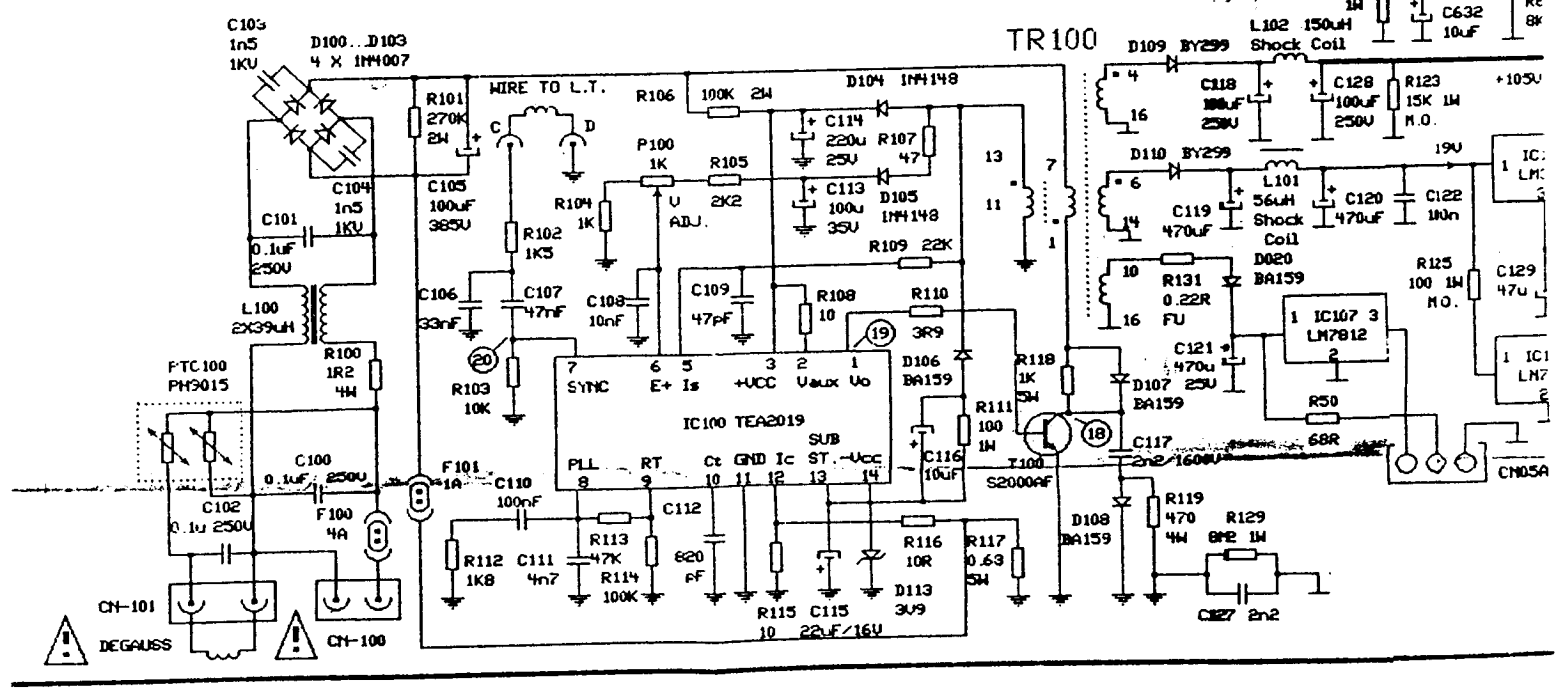
CONTROLLER

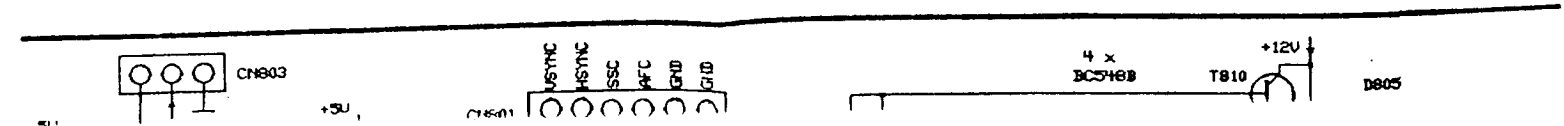


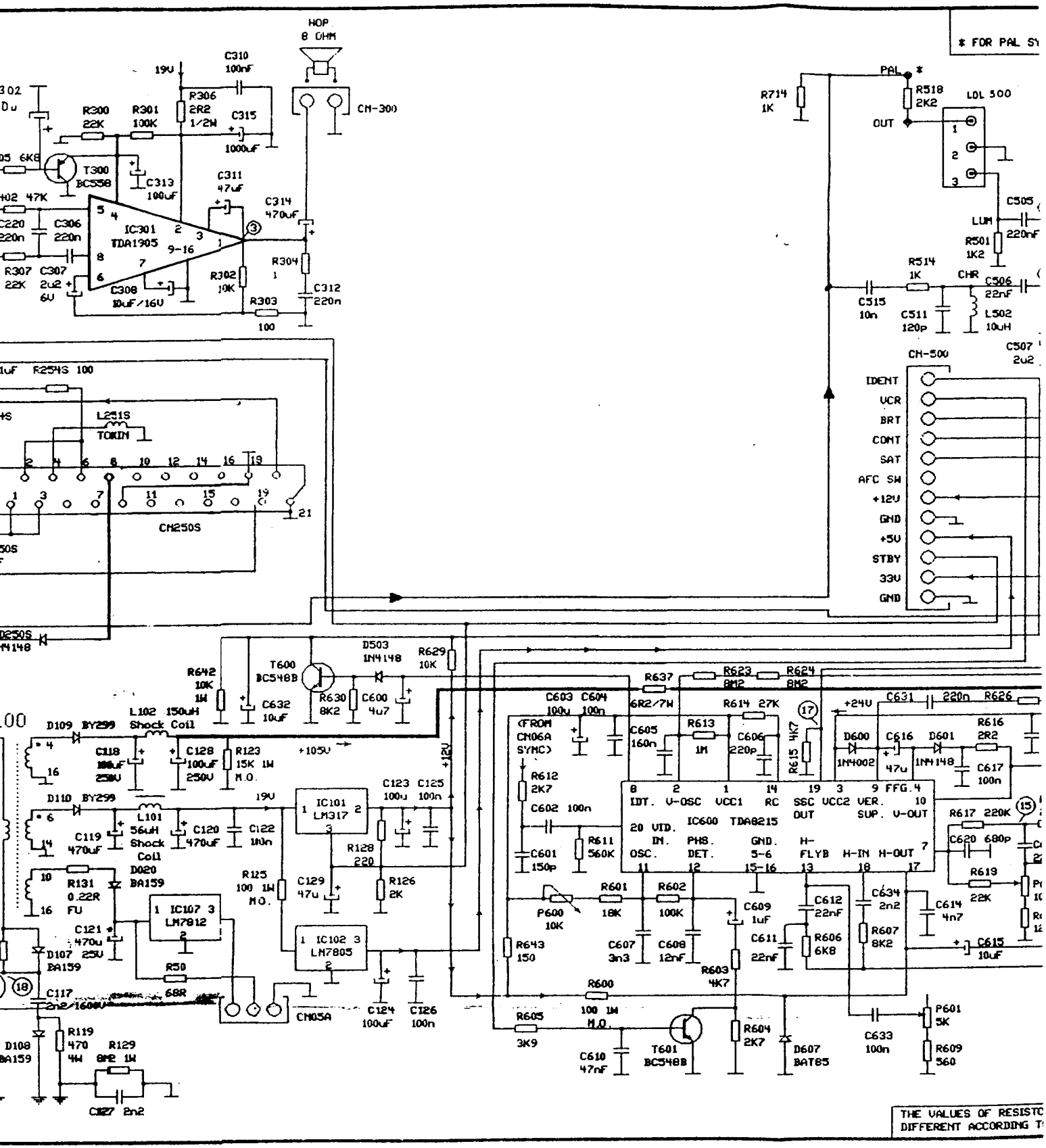
7148-A

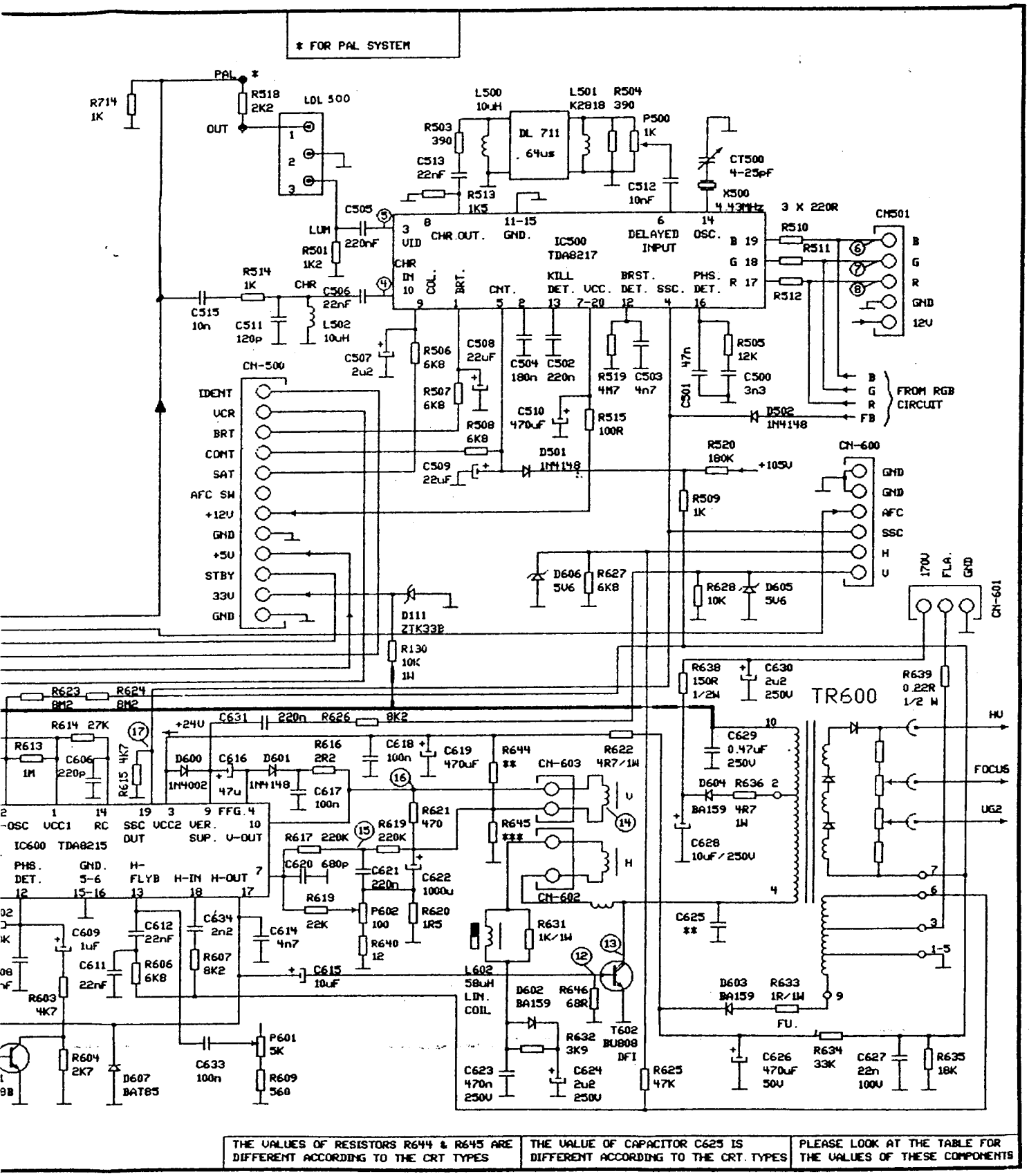

TELRA ÇTV (PL2)
CN-200
VOL
TUN
12V
VOL
UHF
AV
GND
TUNER
ANT.
U
TUN
AGC
AFC
12V
IF
R219 27K
R220 27K
C202 100uF
C203 330u
D400 1N4148
CN06B
JUMPER CONNECTED ONLY WITHOUT TELETEXT SET
TO TTXT BOARD VIA B/B SOCKET
GND VID SYNC FB B G R
CN06A
TO R612
IC450 TEA 5114
3 X 100n C458
C459
C460
R466 R467 R468 3 X 120
+12V
D455 1N4148
3 X 1N4148
D451 D452 D453
R489 R488 R487 3 X 820R
B G R FB
TO CN501
12V
R207 12K
R211 33K
C252 10u
R210 160R
C233 10n
C216 2n2
C206 10u
L200 10uH
L201 1uH
C203 22n
C208 1n
C205 100n
C21 100u
IC 201 TDA 8341
C214 10n
F200 * OFWK 1.951
T200 BF 959
R203 560R
R202 3K3
R200 51R
C20 1n
C219 68p
1K5
R206
C218 68p
L207
L206
C207 10n
R204 100R
C209 10n
R201 560R
2 X A9001 PIF+AFT COIL
C215 0.47µ
10n
R213 68K
C213 1u
R212 680R
P200 10K
R223 15R
+12V
C210 100n
C223 100u
L204 6.8uH
T201 BC548C
C225 10n
6.0 SFE
L208
F201
C234 22p
R209 390R
R221 470R
C232
F202 TPS 6.0
L203 15uH
IC 202 TDA 3827
C228 100n
C227 220n
C230 47n
C229 47n
C226 100u
R218 10K
R216 10K
R217 220R
C222 10u
R214 1K2
C224 22p
IC 250S TEA 2014A
C253S 10u
R251S
C251S 47u
R252S 10K
C257S 10u
C103 1n5 1KV
D100..D103 4 X 1N4007
R101 270K 2W
WIRE TO L.T.
R106 100K
C104 1n5 1KV
C105 100uF 385V
C101 0.1uF 250V
P100 1K
R105
R104 1K
V ADJ. 2K2
R102 1K5
C106 33nF
C107 47nF
C108 10nF
C109 47pF
L100 2X39uH
R100 1R2 4W
R103 10K
SYNC E+ Is +VCC
IC100 TEA2
PTC100 PH9015
C100 0.1uF 250V
C102 0.1u 250V
F100 4A
F101 1A
C110 100nF
PLL RT Ct GND
C112
R112 1K8
C111 4n7
R113 47K
R114 100K
820 pF
CN-101
DEGAUSS
CN-100
TELRA CHASSIS
CN806
CN806
CN803


IF MODULE
IC 201 TDA 8341
F200 * OFWK 1.951
T200 BF 959
L200 10uH
L201 1uH
L204 6.8uH
T201 BC548C
F201 6.0 SFE
F202 TPS 6.0
IC 250S TEA 2014A
P200 10K
GND
IF
AGC
AFC
Vcc
VIDEO
N.C.
Vin
12V
Vout
AV
Ain
VOL
AUDIO
IC301 TDA1905
T300 BC558
STBY
+12V
19V
CN250S
TOKIN
D250S 1N4148


TR100
IC100 TEA2019
SUB
SYNC
E+ Is
+VCC
Vaux
Vo
PLL
RT
Ct
GND
Ic
ST.-Vcc
L100 2X39uH
L102 150uH Shock Coil
L101 56uH Shock Coil
D100..D103 4 X 1N4007
D104 1N4148
D105 1N4148
D106 BA159
D107 BA159
D108 BA159
D109 BY299
D110 BY299
D020 BA159
T100 S2000AF
IC107 LM7812
PTC100 PH9015
F100 4A
F101 1A
WIRE TO L.T.
DEGAUSS
CN-101
CN-100
CN05A


CN803
+5U
4 x BC548B
T810
+12V
D805

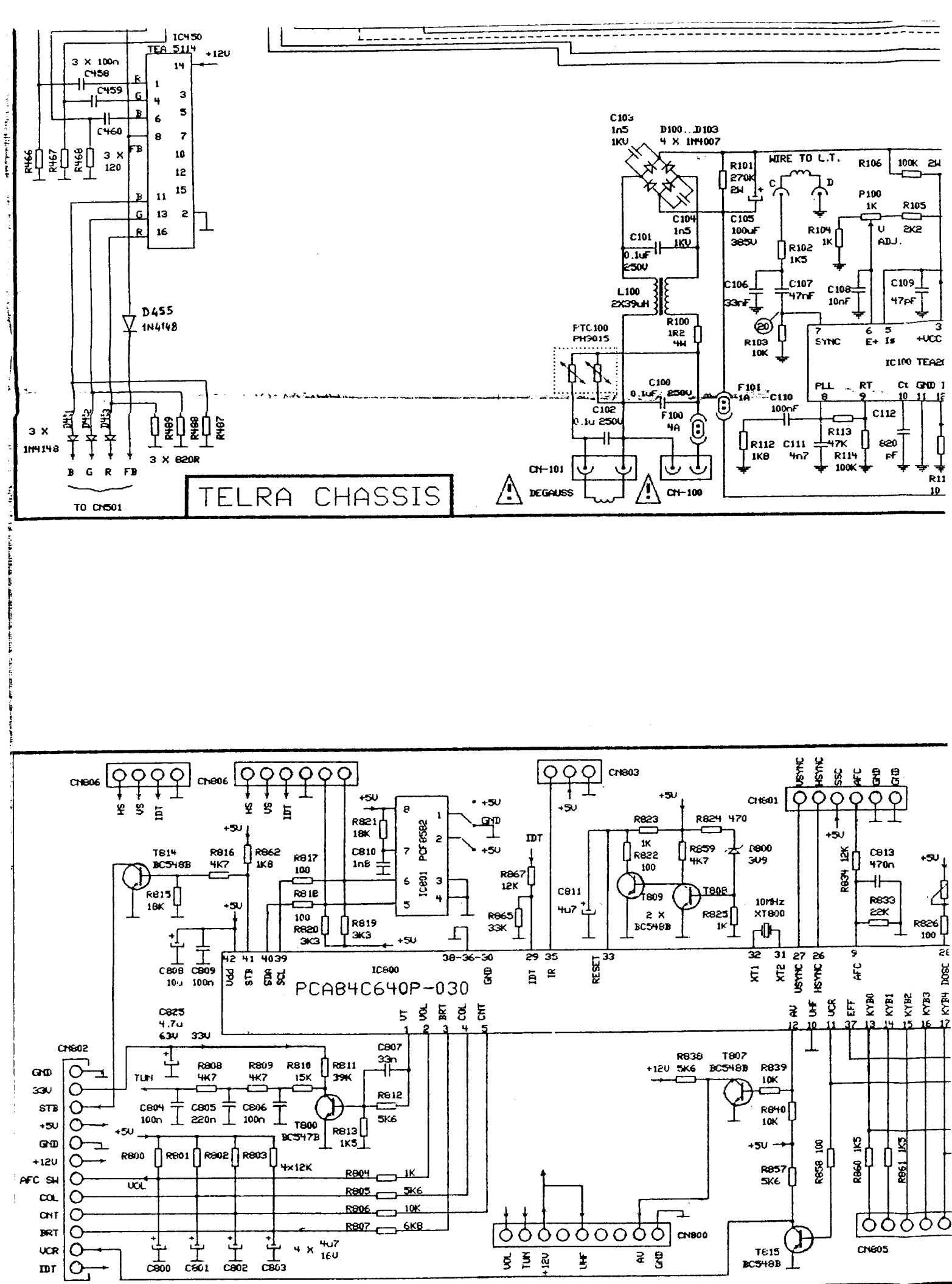

* FOR PAL SY
HOP
8 OHM
CN-300
IC301
TDA1905
9-16
T300
BC558
PAL *
R518
2K2
LDL 500
OUT
R714
1K
C505
LUM
220nF
R501
1K2
R514
1K
CHR
C506
22nF
C515
10n
C511
120p
L502
10uH
CN-500
IDENT
VCR
BRT
CONT
SAT
AFC SW
+12V
GND
+5V
STBY
33V
GND
CN250S
L251S
TOKIN
D503
IN4148
T600
BC548B
R642
10K
1W
C632
10uF
R630
8K2
C600
4u7
R629
10K
L102 150uH
Shock Coil
D109 BY299
C118
C128
100uF
250V
R123
15K 1W
M.O.
+105V
D110 BY299
L101
56uH
Shock
Coil
D020
BA159
C119
470uF
C120
470uF
C122
100n
IC101
LM317
R128
220
C123 C125
100u 100n
R125
100 1W
M.O.
C129
47u
R126
2K
R131
0.22R
FU
C121
470u
D107 25V
BA159
IC107
LM7812
R50
68R
C117
2n2/1600V
IC102
LM7805
C124
100uF
C126
100n
CN05A
D108
BA159
R119
470
4W
R129
8M2 1W
C127 2n2
C603 C604
100u 100n
(FROM
CN06A
SYNC)
R637
6R2/7W
R623
8M2
R624
8M2
R614 27K
C605
160n
R613
1M
C606
220p
R615 4K7
C631 220n R626
+24V
D600
IN4002
C616
47u
D601
IN4148
R616
2R2
C617
100n
R612
2K7
C602 100n
C601
150p
R611
560K
IC600 TDA8215
IDT. V-OSC VCC1 RC SSC VCC2 VER.
OUT SUP. V-OUT
20 VID. IM. PHS. GND. H-
OSC. DET. 5-6 FLYB H-IN H-OUT
FFG.4
R617 220K
C620 680p
R619
22K
C614
4n7
C615
10uF
P600
10K
R601
18K
R602
100K
C609
1uF
C611
22nF
C612
22nF
R606
6K8
C634
2n2
R607
8K2
R643
150
C607
3n3
C608
12nF
R603
4K7
R600
100 1W
M.O.
R605
3K9
C610
47nF
T601
BC548B
R604
2K7
D607
BAT85
C633
100n
P601
5K
R609
560
THE VALUES OF RESISTO
DIFFERENT ACCORDING T
4 x
BC548B
T810
+12V
D805



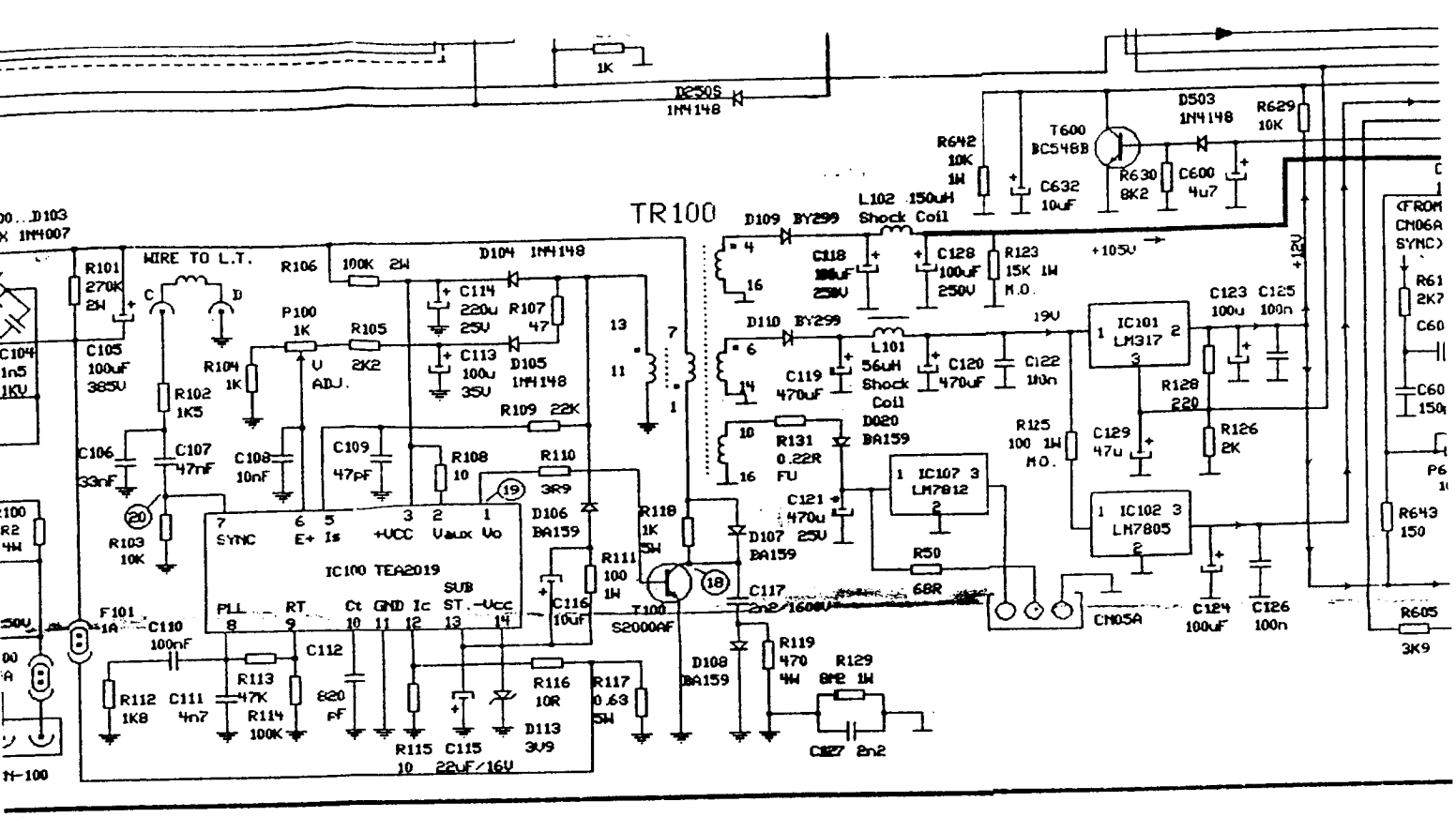
THE VALUES OF RESISTORS R644 & R645 ARE DIFFERENT ACCORDING TO THE CRT TYPES	THE VALUE OF CAPACITOR C625 IS DIFFERENT ACCORDING TO THE CRT TYPES	PLEASE LOOK AT THE TABLE FOR THE VALUES OF THESE COMPONENTS

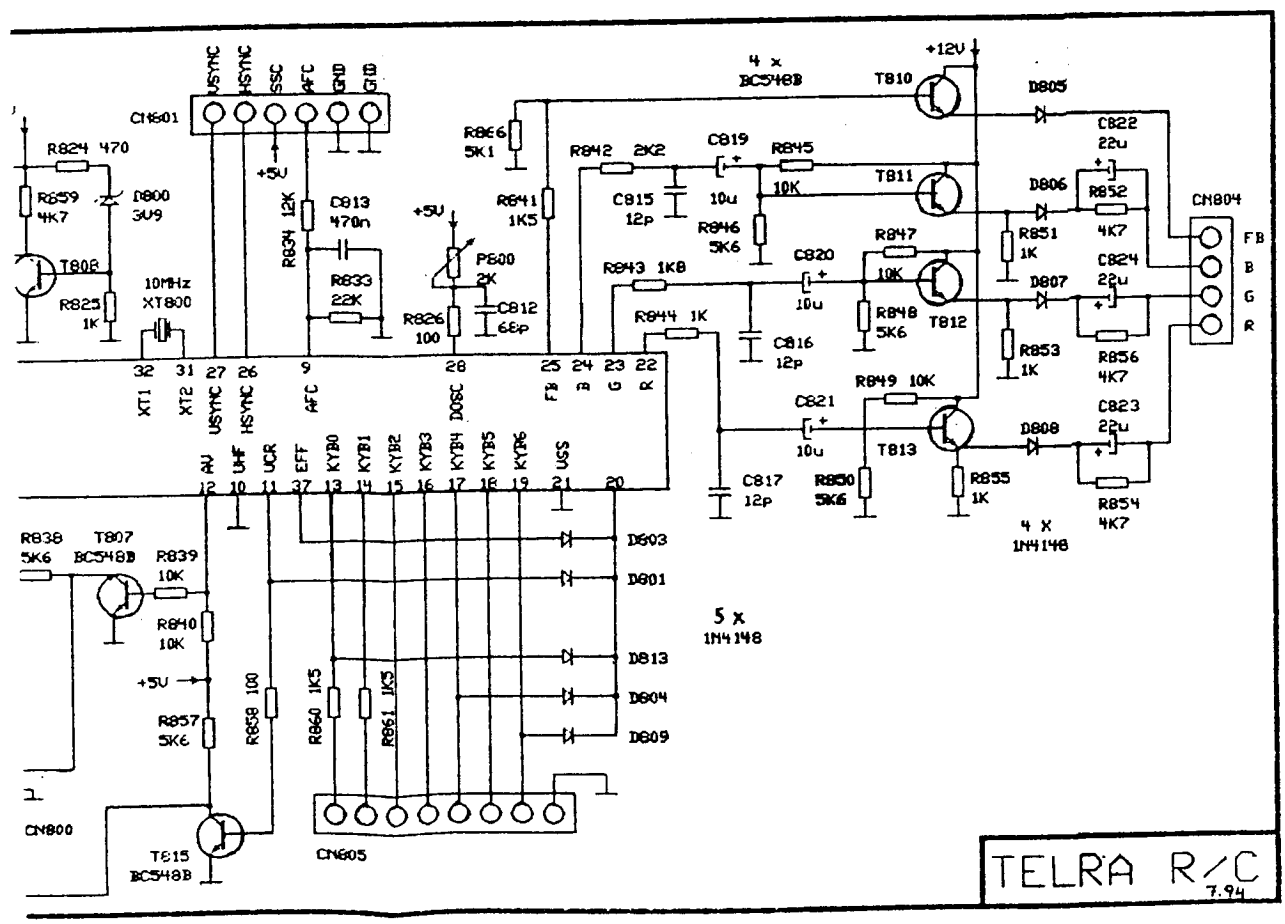
TUBE NO.	C625 (1.6KV)	R644	R645	TUBE SOCKET	LIN COIL
A51-230X NOKIA	9.1nF	1K8#	1K8#	NARROW NECK	57uH
A48KCS12XX GOLDSTAR	8.2nF	1K8#	1K8#	NARROW NECK	57uH
A48JRV90X01 ORION	10nF	1K8#	1K8	NARROW NECK	57uH
A48KCS12XX01 GOLDSTAR	8.2nF	1K8#	1K8	NARROW NECK	57uH
A51JSY61X03 HITACHI	9.1nF	1K8#	1K8#	NARROW NECK	57uH
51GG95X-TC SAMSUNG	9.1nF	1K8#	1K8#	NARROW NECK	57uH
A48JRV50X64 ORION	8.2nF	1K8#	1K5	NARROW NECK	57uH

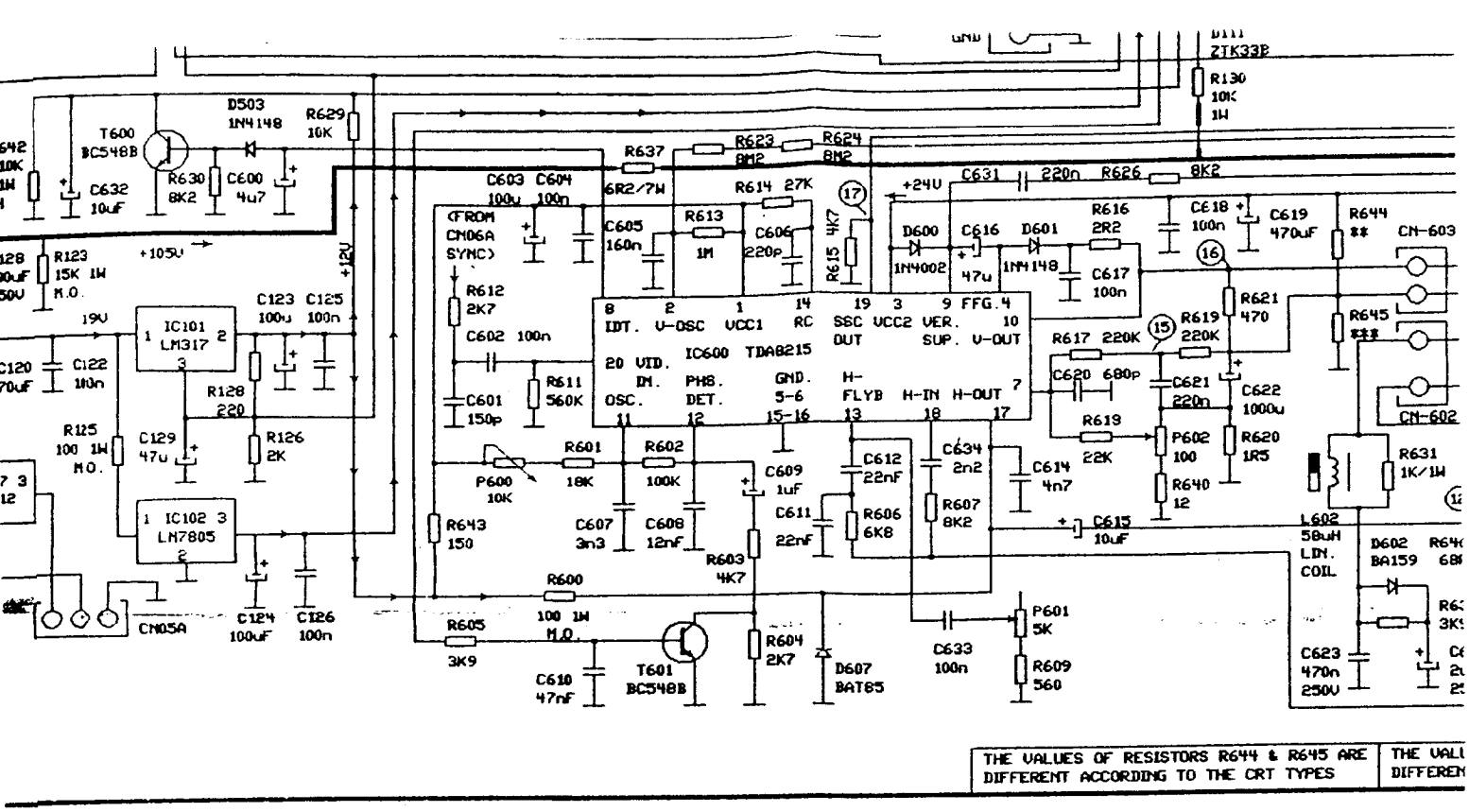
CUT THE LEAD OF RESISTOR MARKED WITH #


IC450
TEA 5114
+12V
3 X 100n
C458
C459
C460
R466
R467
R468
3 X
120
D455
1N4148
3 X
1N4148
R489
R488
R487
3 X 820R
B G R FB
TO CN501
TELRA CHASSIS
C103
1n5
1KV
D100..D103
4 X 1N4007
R101
270K
2W
WIRE TO L.T.
R106
100K 2W
C104
1n5
1KV
C101
0.1uF
250V
C105
100uF
385V
P100
1K
R105
2K2
R104
1K
V
ADJ.
R102
1K5
C106
33nF
C107
47nF
C108
10nF
C109
47pF
L100
2X39uH
R100
1R2
4W
R103
10K
7
SYNC
6
E+
5
Is
3
+VCC
IC100 TEA2
PTC100
PH9015
C100
0.1uF 250V
C102
0.1u 250V
F100
4A
F101
1A
C110
100nF
PLL
8
RT
9
Ct
10
GND
11
C112
R112
1K8
C111
4n7
R113
47K
R114
100K
820
pF
CN-101
DEGAUSS
CN-100
R11
10

CN806
CN806
HS
VS
IDT
+5V
T814
BC548B
R816
4K7
R862
1K8
R815
18K
R817
100
R818
100
R820
3K3
R819
3K3
R821
18K
C810
1n8
IC801
PCF8582
GND
R867
12K
R865
33K
C808
10u
C809
100n
IC800
PCA84C640P-030
SDA
SCL
VDD
STB
GND
IDT
IR
RESET
XT1
XT2
USYNC
HSYNC
AFC
DOSC
CN803
R823
1K
R822
100
R824
470
R859
4K7
D800
3V9
T809
2 X
BC548B
T808
R825
1K
C811
4u7
10MHz
XT800
CN601
SSC
GND
C813
470n
R834
12K
R833
22K
R826
100
C825
4.7u
63V
33V
CN602
GND
33V
STB
+5V
GND
+12V
AFC SW
COL
CNT
BRT
VCR
IDT
TUN
R808
4K7
R809
4K7
R810
15K
R811
39K
C807
33n
R612
5K6
C804
100n
C805
220n
C806
100n
T800
BC547B
R813
1K5
R800
R801
R802
R803
4x12K
VOL
R804
1K
R805
5K6
R806
10K
R807
6K8
C800
C801
C802
C803
4 X 4u7
16V
VT
VOL
BRT
COL
CNT
AV
UHF
VCR
EFF
KYB0
KYB1
KYB2
KYB3
KYB4
R838
5K6
T807
BC548B
R839
10K
R840
10K
R857
5K6
R858
100
R860
1K5
R861
1K5
CN800
CN605
T815
BC548B
VOL
TUN
+12V
UHF
AV
GND

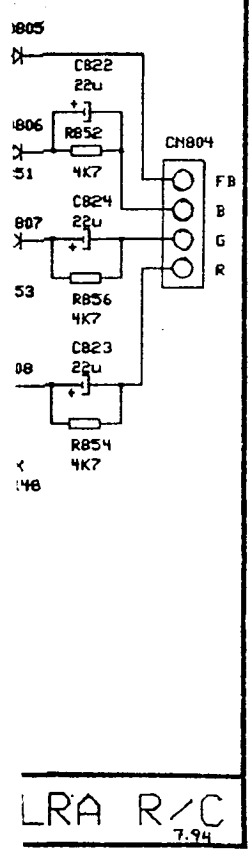

TR100
WIRE TO L.T.
IC100 TEA2019
SYNC
E+ Is
+UCC
Vaux
Vo
PLL
RT
Ct
GND
Ic
SUB ST.-Vcc
IC101 LM317
IC102 LM7805
IC107 LM7812
L101 56uH Shock Coil
L102 150uH Shock Coil
D020 BA159
D104 1N4148
D105 1N4148
D109 BY299
D110 BY299
D503 1N4148
T600 BC548B
T100 S2000AF
F101 1A
CN05A
+105V
+12V
19V


4 x BC548B
T810
T811
T812
T813
T807
T815
D805
D806
D807
D808
D801
D803
D804
D809
D813
5 x 1N4148
4 x 1N4148
CN804
CN800
CN605
FB
B
G
R
TELRA R/C
7.94

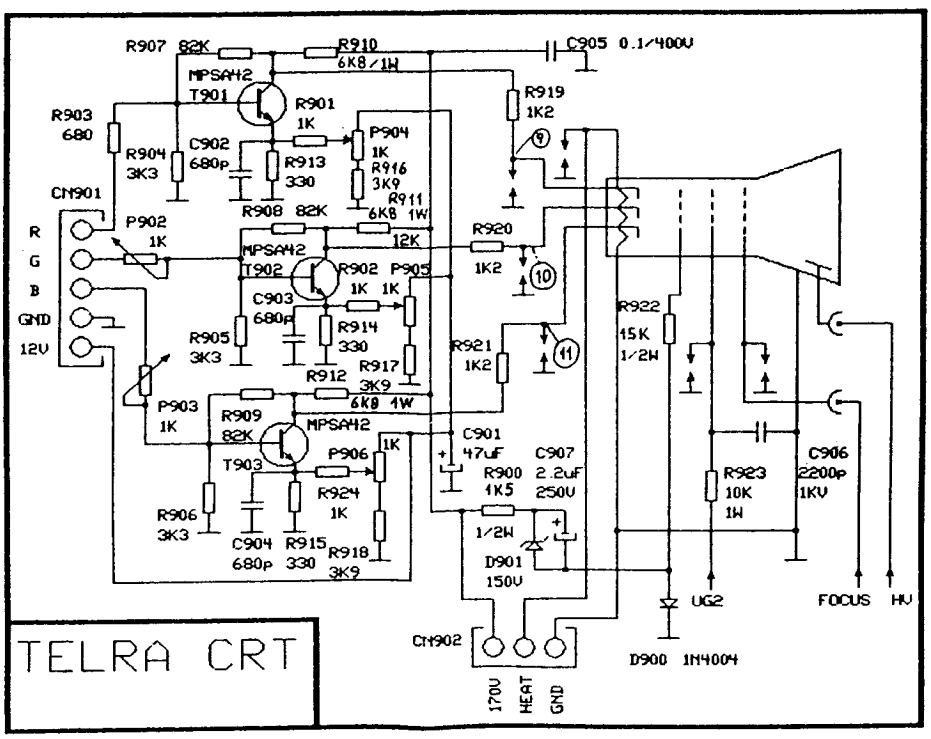


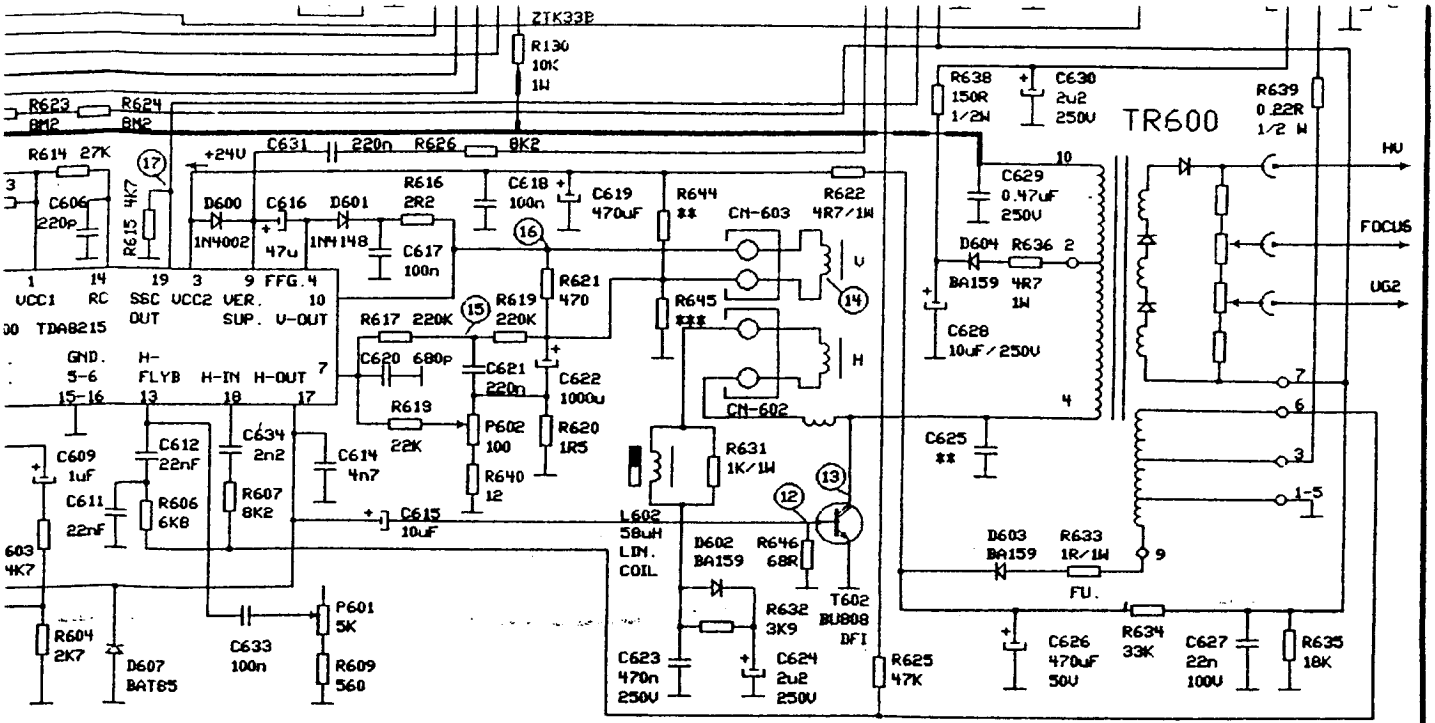
THE VALUES OF RESISTORS R644 & R645 ARE DIFFERENT ACCORDING TO THE CRT TYPES

THE VALU DIFFEREN



LRA R/C 7.94

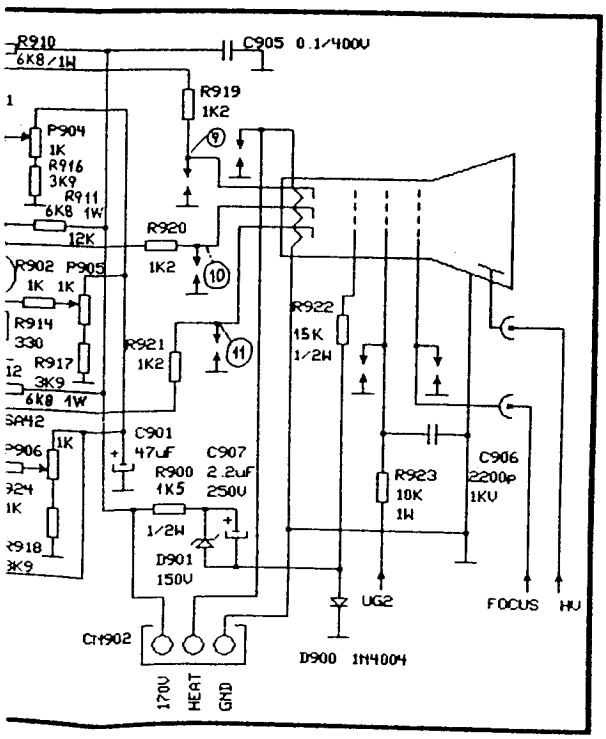




THE VALUES OF RESISTORS R644 & R645 ARE DIFFERENT ACCORDING TO THE CRT TYPES	THE VALUE OF CAPACITOR C625 IS DIFFERENT ACCORDING TO THE CRT TYPES	PLEASE LOOK AT THE TABLE FOR THE VALUES OF THESE COMPONENTS

TUBE NO.	C625 (1.6KV)	R644	R645	TUBE SOCKET	LIN COIL
A51-230X NOKIA	9.1nF	1K8#	1K8@	NARROW NECK	57uH
A48KCS12XX GOLDSTAR	8.2nF	1K8@	1K8@	NARROW NECK	57uH
A48JRV90X01 ORION	10nF	1K8#	1K8*	NARROW NECK	57uH
A48KCS12XX01 GOLDSTAR	8.2nF	1K8#	1K8	NARROW NECK	57uH
A51JSY61X03 HITACHI	9.1nF	1K8#	1K8@	NARROW NECK	57uH
51GG95X-TC SAMSUNG	9.1nF	1K8#	1K8@	NARROW NECK	57uH
A48JRV50X64 ORION	8.2nF	1K8#	1K5	NARROW NECK	57uH

CUT THE LEAD OF RESISTOR MARKED WITH # IN ORDER TO SHIFT PICTURE UP
CUT THE LEAD OF RESISTOR MARKED WITH @ IN ORDER TO SHIFT PICTURE DOWN



THE CIRCUITS ARE SUBJECT TO CHANGE WITHOUT ANY NOTICE.

TELRA CHASSIS.

MODEL

CRT9551RT	20"
CRT9521R	21"
CRT5912RT	21"
CRT5159R	20"

45 5/10/96.